

## VOLUME DETAILED BUILDING STRUCTURE

### ABSTRACT OF THE INVENTION

The present invention is directed to a technique of volume detailing a building structure that allow for the consideration of the positioning of various structural and non-structural components. Initially, a three dimensional building structure volume is created. Next, a three dimensional component is positioned at a desired location in the three dimensional building structure volume. Finally, the three dimensional building structure volume is sectioned at a point of interest to provide a building structure profile that includes a component profiled if the three dimensional component extends through the point of interest. In another embodiment, a plurality of additional component profiles are placed within the building structure profile at the point of interest such that the additional component profiles do not interfere with one another or interfere with the component profile of the three dimensional component.

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